

## CLAIMS:

1. A method of encoding (2) a signal (S) to obtain a bit-stream (V,TS), the method comprising the steps of:

providing (12,13) blocks of quantized transform coefficients ( $C_i$ ); and

attenuating (19) higher-frequency transform coefficients ( $C_i$ ) of a given block

5 more than lower-frequency transform coefficients of the given block.

2. A method as claimed in claim 1, the step of attenuating comprising:

quantizing (19) the transform coefficients ( $C_i$ ) of the given block with a curve (QC) having higher quantization steps ( $Q_{ADD}$ ) for higher-frequency transform coefficients ( $C_i$ ), without putting information concerning said curve (QC) into the bit-stream (V,TS).

3. A method as claimed in claim 2,

further comprising the step of shifting (19,21) the curve (QC) to adjust a bit rate (R) of the bit-stream (V,TS).

4. A method as claimed in claim 2,

further comprising the step of multiplying (19,21) the curve (QC) to adjust a bit rate (R) of the bit-stream (V,TS).

5. A method as claimed in claim 2, wherein the signal (S) comprises intra-coded and predictively coded pictures, the method comprising the step of:

quantizing (19,21) predictively coded pictures at an end of a prediction sequence more coarsely than predictively coded pictures at a start of the prediction sequence.

6. A method as claimed in claim 1, the method further comprising the steps of:

decoding (14,15) the blocks of quantized transform coefficients ( $C_i$ ) to obtain a reconstructed picture rather than decoding (14,15) the attenuated (19) high-frequency transform coefficients ( $C_i$ ).

7. A method as claimed in claim 1, the method further comprising:  
attenuating (19) high frequency transform coefficients ( $C_i$ ) in a plurality of  
blocks, wherein the blocks are adaptively attenuated depending on their content.

5 8. A method as claimed in claim 7, wherein chrominance blocks are less  
attenuated (19) than luminance blocks.

9. A method as claimed in claim 7, wherein blocks with an energy content  
higher than other blocks are less attenuated (19) than the other blocks.

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10. A method as claimed in claim 1, wherein at least one selected high-frequency  
transform coefficient ( $C_i$ ) is not attenuated (19).

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11. A method as claimed in claim 10, wherein the at least one selected high-  
frequency transform coefficient ( $C_i$ ) has a frequency higher than a given frequency threshold  
and an amplitude higher than a given amplitude threshold.

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12. A device (2) for encoding a signal (S) to obtain a bit-stream (V,TS),  
comprising:  
means (12,13) for providing blocks of quantized transform coefficients ( $C_i$ );  
and  
means (19) for attenuating high-frequency transform coefficients ( $C_i$ ) of a  
given block.

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13. A transmitter (1) comprising:  
means (10) for obtaining a signal (S); and  
a device (2) for encoding the signal (S) as claimed in claim 12.

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14. A method of transcoding (5) an encoded signal (TS1,V1), comprising the steps  
of:  
decoding (50,51) the encoded signal (TS1,V1) to obtain blocks of quantized  
transform coefficients ( $C_i$ ); and  
attenuating (52) high-frequency transform coefficients ( $C_i$ ) of a given block.

15. A bit rate transcoder (5) for transcoding an encoded signal (TS1,V1) comprising:

means (50,51) for decoding the encoded signal (TS1,V1) to obtain blocks of quantized transform coefficients ( $C_i$ ); and

5 means for attenuating (52) high-frequency transform coefficients ( $C_i$ ) of a given block.

16. A bit rate transcoder (7) as claimed in claim 15, the bit rate transcoder (7) further comprising:

10 means (70,72) for re-quantizing the quantized transform coefficients to obtain re-quantized coefficients; and

a feedback loop (73-78,71) for compensating a re-quantization error;

the means for attenuating (52) being arranged to attenuate high-frequency coefficients in blocks of the re-quantized coefficients.

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17. A receiver (3) comprising:

means (4,50) for obtaining an encoded signal (TS1,V1); and

a bit rate transcoder (5) for transcoding the encoded signal (TS1,V1) as claimed in claim 15.

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18. A bit-stream (V,TS,V2,TS2) comprising blocks of quantized transform coefficients ( $C_i$ ), wherein high-frequency transform coefficients ( $C_i$ ) of a given block have been attenuated.

25 19. A storage medium (6) on which a bit-stream (V,TS,V2,TS2) as claimed in claim 18 is stored.